Applicants:

William C. Olson et al.

Serial No.:

Not Yet Known

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Herewith, October 16, 2006

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1-73. (canceled)

- 74. (New) An anti-CCR5 antibody fragment comprising an antibody fragment selected from the group consisting of:
 - (a) a light chain, which light chain comprises the expression product of a plasmid designated pVK:HuPRO140-VK (ATCC Deposit Designation PTA-4097);
 - (b) a heavy chain, which heavy chain comprises the expression product of either a plasmid designated pVg4:HuPRO140 HG2-VH (ATCC Deposit Designation PTA-4098) or a plasmid designated pVg4:HuPRO140 (mut B+D+I)-VH (ATCC Deposit Designation PTA-4099);
 - (c) a Fab fragment which comprises (i) two light chains, each light chain comprising the expression product of a plasmid designated pVK:HuPRO140-VK (ATCC Deposit Designation PTA-4097), and (ii) two heavy chains, each heavy chain comprising the expression product of either a plasmid designated pVg4:HuPRO140 HG2-VH (ATCC Deposit Designation PTA-4098) or a plasmid designated pVg4:HuPRO140 (mut B+D+I)-VH (ATCC Deposit Designation PTA-4099); and
 - (d) a F(ab'), fragment which comprises (i) two light chains, each light chain comprising the expression product of a plasmid designated pVK:HuPRO140-VK (ATCC Deposit Designation PTA-4097), and (ii) two heavy chains, each heavy chain comprising the expression product of either a plasmid designated pVg4:HuPRO140 HG2-VH (ATCC Deposit Designation PTA-4098) or a plasmid designated pVg4:HuPRO140 (mut B+D+I)-VH (ATCC Deposit Designation PTA-4099);

and which antibody fragment binds to CCR5 on the surface of a human cell.

Applicants: Graham P. Allaway et al. Serial No.: 09/888,938 Filed: June 25, 2001

Exhibit 1

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75. (New) The anti-CCR5 antibody fragment of claim 74, wherein the antibody fragment is the light chain expressed by the plasmid designated pVK:HuPRO140-VK (ATCC Deposit Designation PTA-4097).

- 76. (New) The anti-CCR5 antibody fragment of claim 74, wherein the antibody fragment is the heavy chain expressed by the plasmid designated pVg4:HuPRO140 HG2-VH (ATCC Deposit Designation PTA-4098).
- 77. (New) The anti-CCR5 antibody of claim 74, wherein the antibody fragment is the heavy chain expressed by the plasmid designated pVg4:HuPRO140 (mut B+D+I)-VH (ATCC Deposit Designation PTA-4099).
- 78. (New) The anti-CCR5 antibody fragment of claim 74, wherein the antibody fragment is the Fab fragment of the anti-CCR5 antibody which comprises (i) two light chains, each light chain comprising the expression product of a plasmid designated pVK:HuPRO140-VK (ATCC Deposit Designation PTA-4097), and (ii) two heavy chains, each heavy chain comprising the expression product of either a plasmid designated pVg4:HuPRO140 HG2-VH (ATCC Deposit Designation PTA-4098) or a plasmid designated pVg4:HuPRO140 (mut B+D+I)-VH (ATCC Deposit Designation PTA-4099).
- 79. (New) The anti-CCR5 antibody fragment of claim 74, wherein the antibody fragment is the F(ab'), fragment of the anti-CCR5 antibody which comprises (i) two light chains, each light chain comprising the expression product of a plasmid designated pVK:HuPRO140-VK (ATCC Deposit Designation PTA-4097), and (ii) two heavy chains, each heavy chain comprising the expression product of either a plasmid designated pVg4:HuPRO140 HG2-VH (ATCC Deposit Designation PTA-4098) or а plasmid pVg4:HuPRO140 (mut B+D+I)-VH (ATCC Deposit Designation PTA-4099).
- 80. (New) An anti-CCR5 antibody fragment comprising (i) a light chain which comprises consecutive amino acids having the sequence set forth in SEQ ID NO:6; or (ii) a heavy chain which comprises consecutive amino acids having the sequence set forth in SEQ ID NO:9 or SEQ ID NO:12.

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81. (New) A composition comprising the anti-CCR5 antibody fragment of claim 74 or claim 80 and a carrier, a diluent or an excipient.

- 82. (New) The composition of claim 81, wherein the anti-CCR5 antibody fragment has attached thereto a material selected from the group consisting of a radioisotope, a toxin, polyethylene glycol, a cytotoxic agent and a detectable label.
- 83. (New) A method of inhibiting HIV-1 infection of a CD4+ cell which comprises contacting the CD4+ cell with the anti-CCR5 antibody fragment of claim 74 or claim 80, in an amount and under conditions such that fusion of HIV-1 or an HIV-1 infected cell to the CD4+ cell is inhibited, thereby inhibiting HIV-1 infection of the CD4+ cell.
- 84. (New) The method of claim 83, which further comprises labeling the anti-CCR5 antibody fragment with a detectable marker.
- 85. (New) The method of claim 84, wherein the detectable marker is a radioactive or a fluorescent marker.
- 86. (New) The method of claim 83, wherein the CD4+ cell expresses CCR5.
- 87. (New) A method of treating a subject afflicted with HIV-1 which comprises administering to the subject an effective HIV-1 treating dosage amount of the composition of claim 81, under conditions effective to treat said HIV-1-afflicted subject.
- 88. (New) The method of claim 87, wherein the composition is administered to the subject by a method selected from the group consisting of intravenous, intramuscular and subcutaneous means.
- 89. (New) The method of claim 87, wherein the composition is administered continuously to said subject or at predetermined periodic intervals.
- 90. (New) The method of claim 87, wherein the dosage of said composition ranges from about 0.1 to about 100,000 $\mu g/kg$ body weight of said subject.

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91. (New) The method of claim 87, wherein the dosage of said composition does not inhibit an endogenous chemokine activity on CCR5 in said subject.

- 92. (New) A method of preventing a subject from contracting an HIV-1 infection which comprises administering to the subject an effective HIV-1 infection-preventing dosage amount of the composition of claim 81, under conditions effective to prevent said HIV-1 infection in said subject.
- 93. (New) The method of claim 92, wherein the anti-CCR5 antibody fragment is administered to the subject by a method selected from the group consisting of intravenous, intramuscular and subcutaneous means.
- 94. (New) The method of claim 92, wherein the anti-CCR5 antibody fragment is administered continuously to said subject or at predetermined periodic intervals.
- 95. (New) The method of claim 92, wherein the dosage of said anti-CCR5 antibody fragment ranges from about 0.1 to about 100,000 $\mu g/kg$ body weight of said subject.
- 96. (New) The method of claim 92, wherein the dosage of said anti-CCR5 antibody fragment does not inhibit an endogenous chemokine activity on CCR5 in said subject.